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11   SUPERIOR COURT OF THE STATE OF CALIFORNIA

12   COUNTY OF SAN MATEO

13 SIX4THREE, LLC, a Delaware limited liability   Case No. CIV 533328
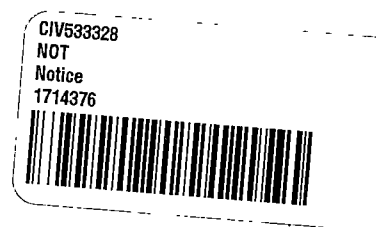   company,
14   **Assigned for all purposes to Hon. V. Raymond
                                                        Swope, Dept. 23**
15   Plaintiff,

16   v.   **NOTICE OF LODGING DOCUMENTS
                                                        UNDER SEAL - REDACTED VERSION OF
17 FACEBOOK, INC., a Delaware corporation;   DOCUMENT CONDITONALLY LODGED
    MARK ZUCKERBERG, an individual;   UNDER SEAL PURSUANT TO CASE
18 CHRISTOPHER COX, an individual;   MANAGEMENT ORDER NO. 20**
    JAVIER OLIVAN, an individual;
19 SAMUEL LESSIN, an individual;   Dept: 23 (Complex Civil Litigation)
    MICHAEL VERNAL, an individual;   Judge: Honorable V. Raymond Swope
20 ILYA SUKHAR, an individual; and
    DOES 1-50, inclusive,
21   FILING DATE: April 10, 2015
                     Defendants.   TRIAL DATE: April 25, 2019

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            NOTICE OF LODGING DOCUMENTS UNDER SEAL / CASE NO. CIV 533328

SUPERIOR COURT OF THE STATE OF CALIFORNIA

COUNTY OF SAN MATEO

SIX4THREE LLC,	Case No. CIV533328
Plaintiff	**REPORT OF STROZ FRIEDBERG**
vs.	**DATED MARCH 12, 2019**
FACEBOOK, INC., et al.	Assigned for All Purposes to Hon. V. Raymond Swope, Dept. 23
Defendants.	Dept.: 23
	Action Filed: April 10,2015

1.   Stroz Friedberg has been retained by Facebook to serve as a forensic investigator in the above-captioned matter, and this report responds to the Court's Case Management Order Number 19, dated March 1, 2019. That order directed Stroz Friedberg to perform as follows:

> [C]onduct a search on Mr. Kramer's computer, currently in its possession, for any and all logs and records, not limited to systems logs, that will identify any files accessed, opened, uploaded, downloaded, transferred, shared, saved, modified, and/or deleted, for the period from November 19, 2108[1] at 12:00:00 AM (GMT) to November 23, 2018 at 11:59:59 P.M (EST). Stroz Friedberg shall not open any files on Mr. Kramer's computer absent further of the Court.
>
> ...
>
> Stroz Friedberg shall serve on counsel of record a written summary and attach the logs and records promptly upon completion. The Court considers this report confidential information under the protective order and should be treated as such.[2]

This report summarizes Stroz Friedberg's compliance with this Court's order.

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[1] Stroz Friedberg assumed that the intended year is 2018.

[2] Case Management Order No. 19, at p3 (March 1, 2019).

2.   Stroz Friedberg, an Aon Company, is an international consulting and technical services firm specializing in digital risk management, including data breach and cybercrime response, digital forensics, electronic discovery, and business-intelligence services and investigations. Stroz Friedberg's management includes former federal and state prosecutors and former law enforcement officers with both governmental and private-sector experience in traditional and cyber-based investigations, digital forensics, data preservation and analysis, infrastructure protection, and electronic discovery.

3.   On November 30, 2018, under direction from this Court, Stroz Friedberg imaged a MacBook Pro with serial number C025F3PHGY25. It was represented to Stroz Friedberg that this MacBook Pro belonged to Theodore Kramer. Pursuant to this Court's Order of March 1, Stroz Friedberg performed a limited-scope forensic analysis of that MacBook. In that analysis, Stroz Friedberg reviewed any and all logs and records for evidence that any files were accessed, opened, uploaded, downloaded, transferred, shared, saved, modified, and/or deleted for the period from November 19, 2018 at 12:00:00 AM GMT to November 23, 2018 at 11:59:59 PM EST (the "Court-Ordered Date Range"). Stroz Friedberg did not open any user-created files on Mr. Kramer's computer.

4.   **File-listing spreadsheet.** Stroz Friedberg created a spreadsheet listing all files containing metadata values in the fields File Created, Last Modified, or Last Accessed during the Court-Ordered Date Range. An electronic version of the spreadsheet has been provided with this report.

5.   **USB artifacts and Dropbox artifacts.** In addition to creating the file listing, Stroz Friedberg also complied with the Court's order to analyze "any and all logs and records" relating to "uploaded, downloaded, transferred, [or] shared" by reviewing forensic artifacts on the

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MacBook for (1) any evidence of USB activity and (2) any evidence of access to the cloud storage utility Dropbox.

6.   The paragraphs below describe Stroz Friedberg's methodology to perform the above-described tasks.

Date-range file-listing methodology

7.   Stroz Friedberg analyzed the MacBook Pro by finding all files on the system with a File Created timestamp during the Court-Ordered Date Range. Stroz Friedberg also exported file listings for all files that had either a Last Modified timestamp or a Last Accessed timestamp between those dates. Stroz Friedberg then consolidated those listings into a single spreadsheet — including the tabs (1) All Files, (2) User Docs, and (3) PDF Files — as described in more detail below. The creation of the **All Files** tab is described in paragraphs 8 to 11, below.

8.   **File Created.** The file listings (i.e., metadata only) for the relevant File Created timestamps were opened in Microsoft Excel. The entries were sorted by their File Created timestamps. The utilized tool placed all timestamps in the GMT time zone. So each timestamp was converted from GMT to EST by subtracting five hours from the GMT times. The converted timestamps were saved in their own columns. Stroz Friedberg then deleted all file entries with a corresponding File Created timestamp value outside of the Court-Ordered Date Range. Specifically, Stroz Friedberg deleted all file listings with a File Created timestamp value that that was:

     a.   **before** this date —11/19/2018 12:00:00 AM GMT

     b.   and **after** this date: 11/23/2018 11:59:59 PM EST.

So for this first iteration of the spreadsheet, the only file listings that remained were those between the above-listed dates. That first iteration was augmented by the Last Modified and Last Accessed processes described below.

9. **Last Modified and Last Accessed.** Stroz Friedberg performed the same date-range filtering for the file listings based on the file timestamps Last Modified and Last Accessed.

10. **Consolidation.** All entries were then copied from the three file listings into a single spreadsheet, deduplicating entries by comparing all fields. The first tab of the provided spreadsheet contains a listing of the entire universe of files that had a timestamp within the Court-Ordered Date Range.

11. **Path column.** Originally, the Path column contained the full path information, including the file name. To permit searching and filtering of all files in a specific path, an Excel formula was run on the Path column, removing filenames. After that process, a user can now filter the spreadsheet to:

    a. **include** only those files that are listed within user-specified path(s).

       (E.g., user-created directories)

    b. **exclude** likely irrelevant files that are contained within specified path(s).

       (E.g., directories created by macOS.)

12. **Tab of User Docs.** ███████████████████████████

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a. All file listings not found in a user directory were deleted first.

b. Of the remaining file listings within a user directory, all file listings with a file extension not known to be user-created were also deleted.

c. That left only file listings with extensions typical of user-created files (e.g., PDF, Microsoft Word files, Microsoft Excel files).

13.   **Tab of PDF Files.** Lastly, to create a tab that contained only PDF files, the User Documents tab was copied to a third tab: PDF Files. In that third tab, all file listings that did not have a .PDF extension were deleted, leaving only the PDF files.

14.   The attached spreadsheet contains file listings within the Court-Ordered Date Range. If the Court would like Stroz Friedberg to perform additional analyses, that spreadsheet may be supplemented.

USB artifact review methodology and findings

15.   Stroz Friedberg next sought to comply with the Court's order to analyze "any and all logs and records" relating to "uploaded, downloaded, transferred, [or] shared" by reviewing forensic artifacts on the MacBook for any evidence of USB drive activity. The first action taken in this USB review was to export settings and configuration files that are known to contain information about removable media (e.g., USB flash drives, external hard drives) volumes on macOS. ████████████████████████████████████

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Dropbox artifact review methodology and findings

20.   Stroz Friedberg next sought to comply with the Court's order to analyze "any and all logs and records" relating to "uploaded, downloaded, transferred, [or] shared" by analyzing the device image for any evidence of Dropbox activity within the Court-Ordered Date Range.

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25.   Stroz Friedberg is available and willing to comply with further orders from this

Court.